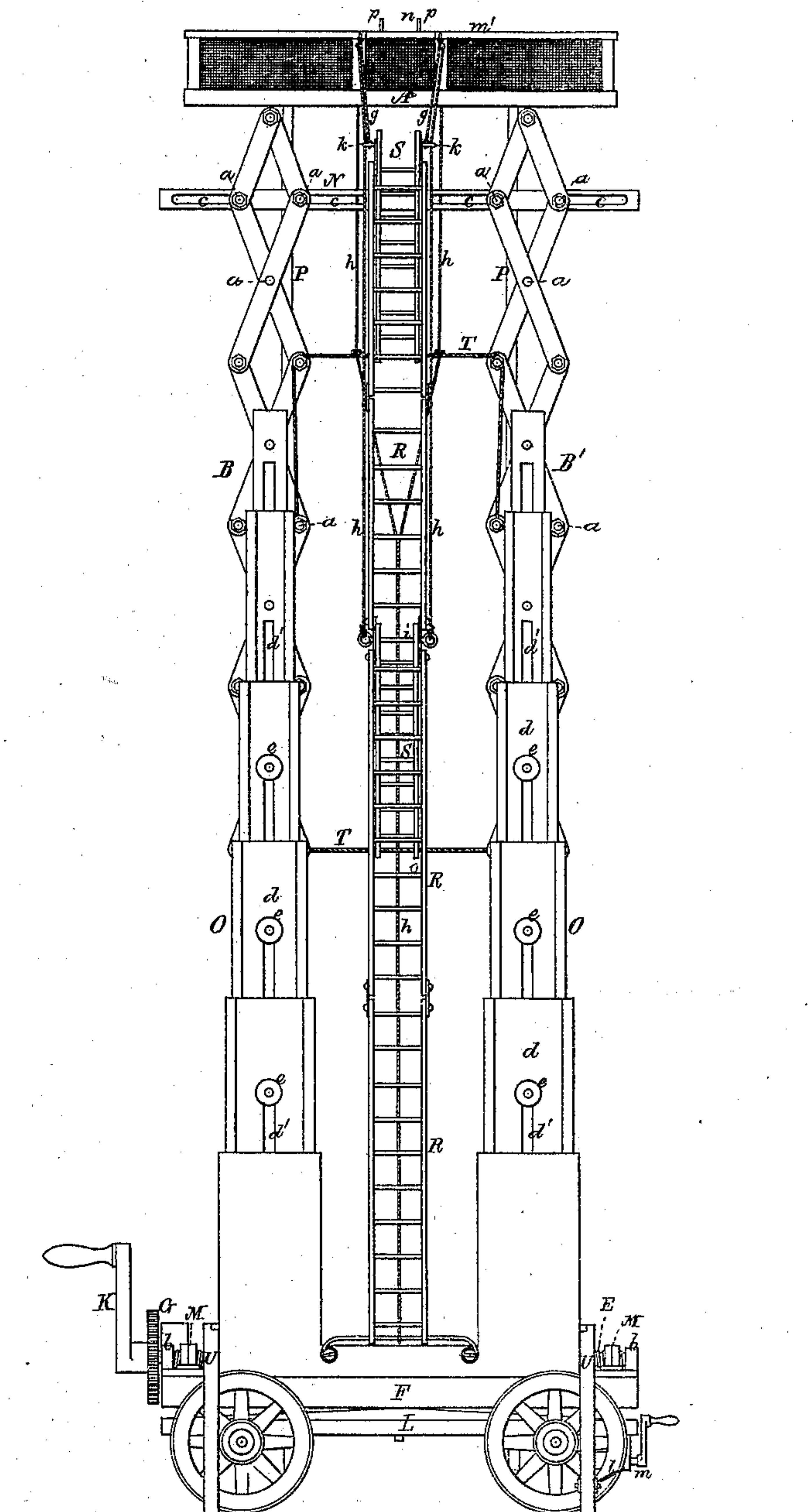


**C. DIETERICH.**  
**Fire-Escapes.**

No. 143,677.

Patented Oct. 14, 1873.

*Fig. 1.*



Witnesses.

S. W. Piper.  
L. N. Möller.

Carl Dieterich.

by his attorney.

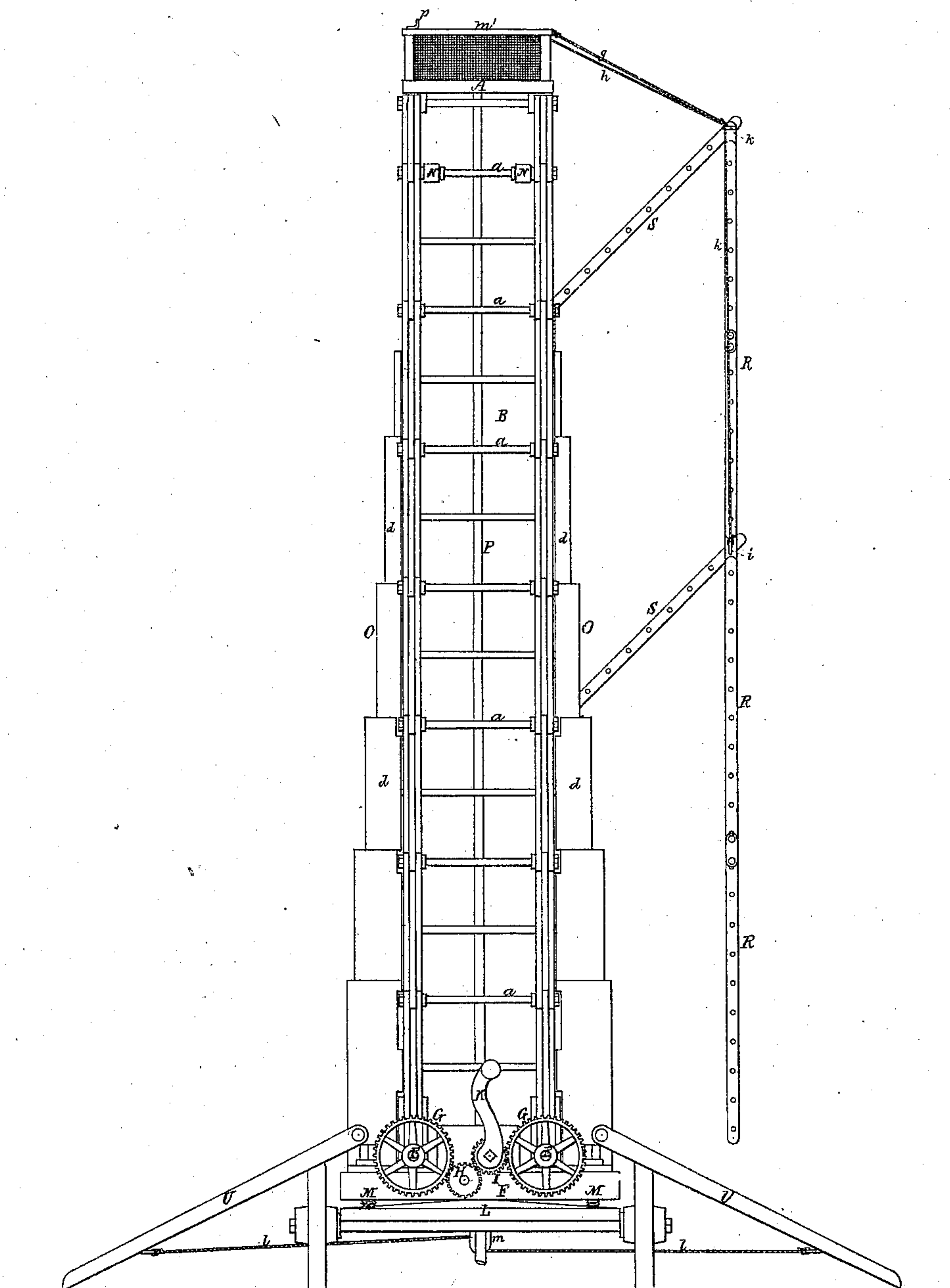
R. H. Eddy

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Fire-Escapes.

No. 143,677.

Patented Oct. 14, 1873.

Fig. 2.



Witnesses.

S. W. Piper  
L. N. Höller

Carl Dieterich

by his attorney

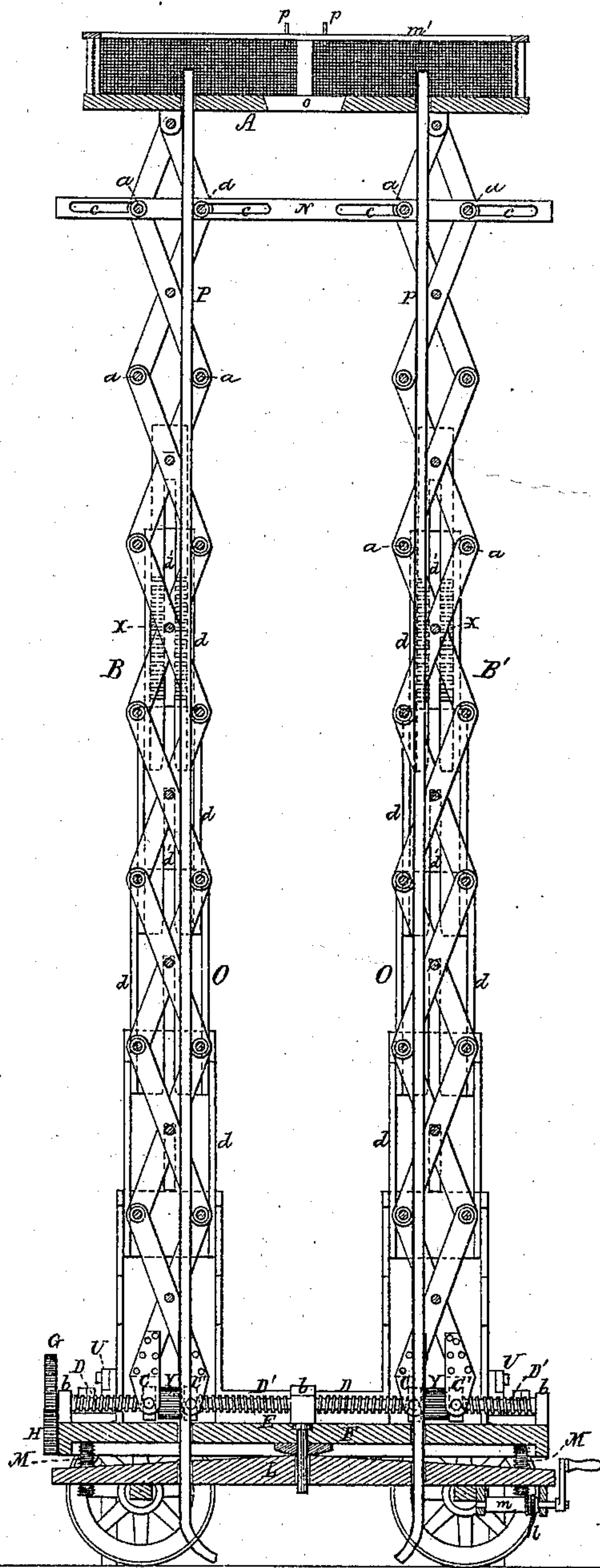
R. M. Ledy

**C. DIETERICH.**  
**Fire-Escapes.**

No. 143,677.

Patented Oct. 14, 1873.

*Fig. 3.*



Witnesses:  
S. H. Piper.  
L. S. Hollen.

Carl Dieterich.  
by his attorney.  
R. H. Eddy



# UNITED STATES PATENT OFFICE.

CARL DIETERICH, OF BOSTON, MASSACHUSETTS.

## IMPROVEMENT IN FIRE-ESCAPES.

Specification forming part of Letters Patent No. 143,677, dated October 14, 1873; application filed August 13, 1873.

*To all whom it may concern:*

Be it known that I, CARL DIETERICH, of Boston, of the county of Suffolk and State of Massachusetts, have invented a new and useful or Improved Fire-Escape; and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a side elevation, Fig. 2 an end view, and Fig. 3 is a vertical section, of it.

In such drawings, A denotes a platform, pivoted to and supported at each end by two pairs of lazy-tongs, B B', arranged as shown, the two pairs at each end being connected at the joints by a series of horizontal rods, a. There are in the feet of each pair of lazy-tongs two screw-nuts, C C', which are pivoted within the tongs, so as to swivel or turn therein. These nuts engage with a pair of right and left threaded screws, D D', formed upon a long horizontal shaft, E, duly supported in bearings or standards b b, erected on a base-platform, F. There are two of such shafts E, there being a gear, G, fixed on the outer end of each. Between the said gears are two pinions, H I, which engage together and with gears G G. One of such pinions is provided with a crank, K, for revolving it. On turning the said crank in one direction, the shafts E E will be simultaneously revolved; and all the lazy-tongs will be contracted horizontally, so as to be extended vertically in a manner to raise the platform A. A counter-movement of the crank will insure depression of the said platform.

In order to steady the series of lazy-tongs, or give support to them, I apply to them and the base-platform four extensible standards, O O O O. Each of such standards is composed of a series of separate parts or sections, d, arranged to slide into each other like the tubes

of a telescope. Each part, except the lower one, is slotted, as shown at d', and receives in the slot one of the connection-rods a of the lazy-tongs, which goes through the slot, and is provided with a head, e.

Each of these sections may be connected with that immediately next it by tongues and grooves applied to them, in order to render the column or extensible standards more rigid when elevated. The lowermost section is fixed at its foot to the base-platform.

A series of four braces, U U U U, is applied to the base-platform, or pivoted to the stationary sections of the extensible standards O O O O, so as to be capable of being turned up into vertical positions, or down into inclined ones, so as to rest at their outer ends upon the ground. A rope, l, hooked to each strut and extended from a windlass, m, arranged as shown, serves to hold the strut firmly upon or in contact with the ground. These struts are to brace the fire-escape when extended or in use.

In the said fire-escape, I claim as my invention as follows, viz:

1. The combination of the four braces U and their sustaining-ropes l with the platforms A F, lazy-tongs B B' and their operative nuts C C', and screws D D', arranged and applied together substantially as specified.

2. The combination of the four extensible standards O O O O, substantially as described, with the two platforms A F, the lazy-tongs B B' and their operative nuts C C', and screws D D', arranged and applied together substantially as specified.

CARL DIETERICH.

Witnesses:

R. H. EDDY,  
J. R. SNOW.